

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,132	12/04/2003	Peter J. Hopper	100-23700 (P05749)	8876
33402 7	590 02/07/2005		EXAMINER	
LAW OFFIC	ES OF MARK C. PIC	NHU, DAVID		
P.O. BOX 300 PETALUMA, CA 94953				
			ART UNIT	PAPER NUMBER
			2818	· · · · · · · · · · · · · · · · · · ·
			DATE MAILED: 02/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		1 A 1: 4: A:	A			
		Application No.	Applicant(s)			
Office Action Summary		10/728,132	HOPPER ET AL.			
		Examiner David Nhu	Art Unit			
	- The MAILING DATE of this communication app	,				
Period fo		ears on the cover sheet what the c	orrespondence dual ess			
THE M - Exten after S - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Is sions of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing digratent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 04 De	ecember 2003.				
2a) □	This action is FINAL . 2b)⊠ This action is non-final.					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4\⊠	Claim(s) 1-20 is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	Claim(s) is/are rejected.					
•						
•	Claim(s) <u>1-20</u> are subject to restriction and/or e	election requirement.				
Applicati	on Papers					
• •	•					
	The specification is objected to by the Examine		Evaminer			
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The path of declaration is objected to by the Examiner. Note the attached Office Action of form F10-132.						
	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
A441	Wal	State of the state	Wan -			
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Paper No(s)/Mail Date			
3) 🔲 Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)			

Application/Control Number: 10/728,132 Page 2

Art Unit: 2818

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 1-15, draw to a transistor, classified in class 257, and subclass 69.

Group II: Claims 16-20, draw to a method of forming a transistor with a first region of a

first conductivity type, classified in class 438, and subclass 197.

- 2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by the processes materially different from those of the group II invention. For example, claim 17, forming a conductive material on the layer of insulation material to fill up the trench; and planarizing the conductive material and the layer of insulation material until the layer of insulation material has been removed from the top surface of the fourth region to form an insulation region that lines the trench and a conductive gate region that contacts the insulation region and fills up the trench.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

Art Unit: 2818

currently named inventors is no longer an inventor of at least one claim remaining in the application.

Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

5. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu **PU**

Art Unit 2818

Dai Dan